

DoD Enterprise Voice

AFCEA Defensive Cyber Operations Symposium

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Enterprise Voice Agenda



- General
- EVolP
- ECVoIP



Enterprise Voice Objective



Improve mission Command and Control (C2) while reducing overall cost of ownership for DoD by providing a secure, scalable, centrally managed high quality service offering



Joint Information Environment

Enablers

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Enterprise Voice and JIE

Infrastructure Network Normalization and Transport

- Transition to EOCs and OOB networks
- Data Center consolidation
- Transport modernization

Single Security Architecture and IdAM

- Enterprise security
- JRSS
- Role-based access

Enterprise
Applications and
Unified Capabilities

- DEPS, DEE, DCO, DEM, EDS, Cloud Computing Services
- GVS, EVoIP, ECVoIP, DMUC, DMCC, Chat, Presence

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Why Transition



- The current environment does not enable:
 - Strategic
 - Tactical
 - Classified
 - Multinational Missions
- Disparate solutions
 - Non-interoperable
 - Duplicative
 - Difficult to manage
- DoD needs a broad range of interoperable and secure capabilities for converged, non-assured and assured voice, video, and data services from the end device through LANs and across the backbone networks



Enterprise Voice Drivers



- Efficiencies Common architecture across DoD based on the APL
- *Effectiveness* Delivery of converged, end-to-end IP services requires simplified equipment string and body of knowledge
- *Interoperability* Leverages commercial NEXTGEN offerings
- *Time and Cost Savings* Combined with the convergence of secure voice, video, and messaging technologies across MILDEP boundaries with end-to-end security and authentication, vendor competition lowers IT training and equipment costs
- Enables DoD components to reduce cost with maintenance of session controllers in their enclaves
- EVoIP customers can deploy hardphone endpoints or soft clients at the site while DISA manages/sustains "in the cloud"
- Reduces costs for DoD installations by supporting access to a broad range of voice and other UC features



Target State











Enterprise Network Convergence



DoD Unified Capabilities





Data

Tactical/ Mobility

The Users / Mission Partners

Interoperability

Information Assurance

Network Performance

Leading the Migration to Almost Every Thing Over IP (EoIP) Multi-vendor Environment, Enabling Net-Centric Operations

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Key Features



EVoIP

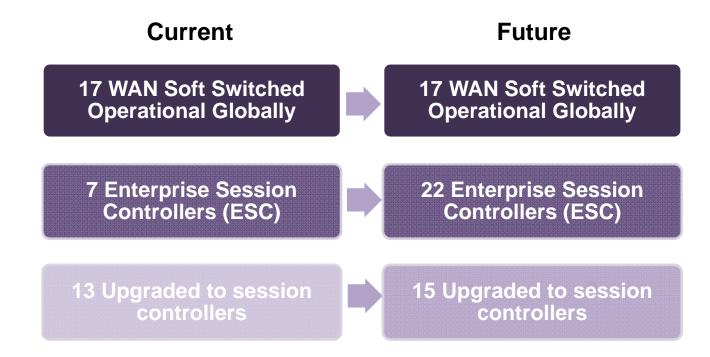
- Lower Total Cost of Ownership
- Voice, IM/Char, Presence, Voicemail, and More
- Integrated Soft Client with Full UC Capabilities
- Port Both Commercial and DSN Numbers
- Emergency Calling Services Fully Supported

ECVoIP

- Global Management and Provisioning
- Extension Mobility (roaming profile)
- Regional Failover Capabilities
- Customer Tiered Permissions
- Soft Client / IM Chat (future capability)



EVoIP Current & Future States





ECVoIP Current & Future States///





Ordering Information



EVoIP

http://www.disa.mil/Network-Services/Voice/EVoIP Email: disa.meade.ns.list.evoip@mail.mil

ECVoIP

http://disa.mil/Network-Services/Voice/DISA-Enterprise-CVoIP Email: disa.meade.ns.list.vosipecvvoip@mail.mil

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EVOIP Environments

Environment 2

Limited local infrastructure to provide basic calling during emergency outage

- Smaller LAN footprint
- Smaller Cost
- Basic calling during WAN outage
- Customer maintained local equipment

Environment 3

Only endpoints deployed on premises

- Smallest LAN footprint
- Lowest Cost
- Redundant NIPRNET circuits recommended
- No customer maintained local infrastructure

Environment 1

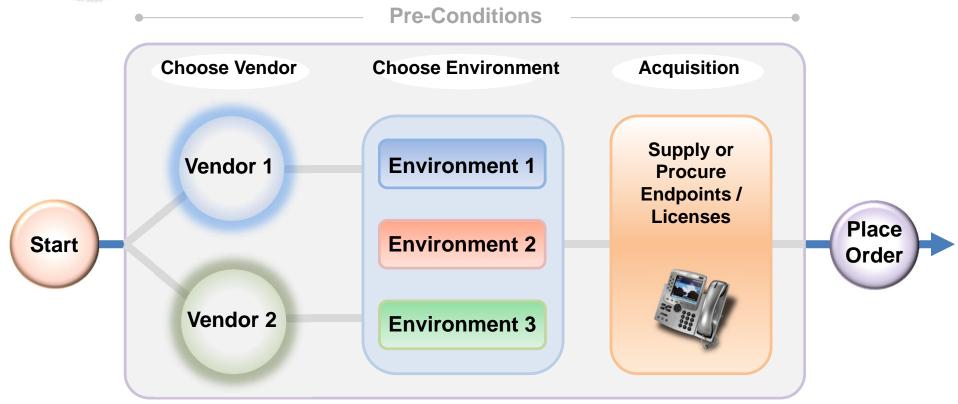
Utilizes Failover Session Controller for emergency services during WAN outage

- Largest LAN footprint
- Highest Cost
- Full survivability in WAN outage
- Customer maintained local equipment

6/11/2015



Obtaining EVoIP Service





ECVoIP Advantages



- Cost Avoidance: no longer a need for procurement, installation and O&M of equipment at B/P/C/S
- Centralized network management and provisioning customers at DISA CONUS
- Provides access to all VoSIP enclaves, DRSN and allies
- Takes advantage of Extension Mobility; customers log onto the system using a PIN and Username
- Roaming profile capabilities within regions (CONUS, PAC, EUR); users can log onto any ECVoIP phone within the region